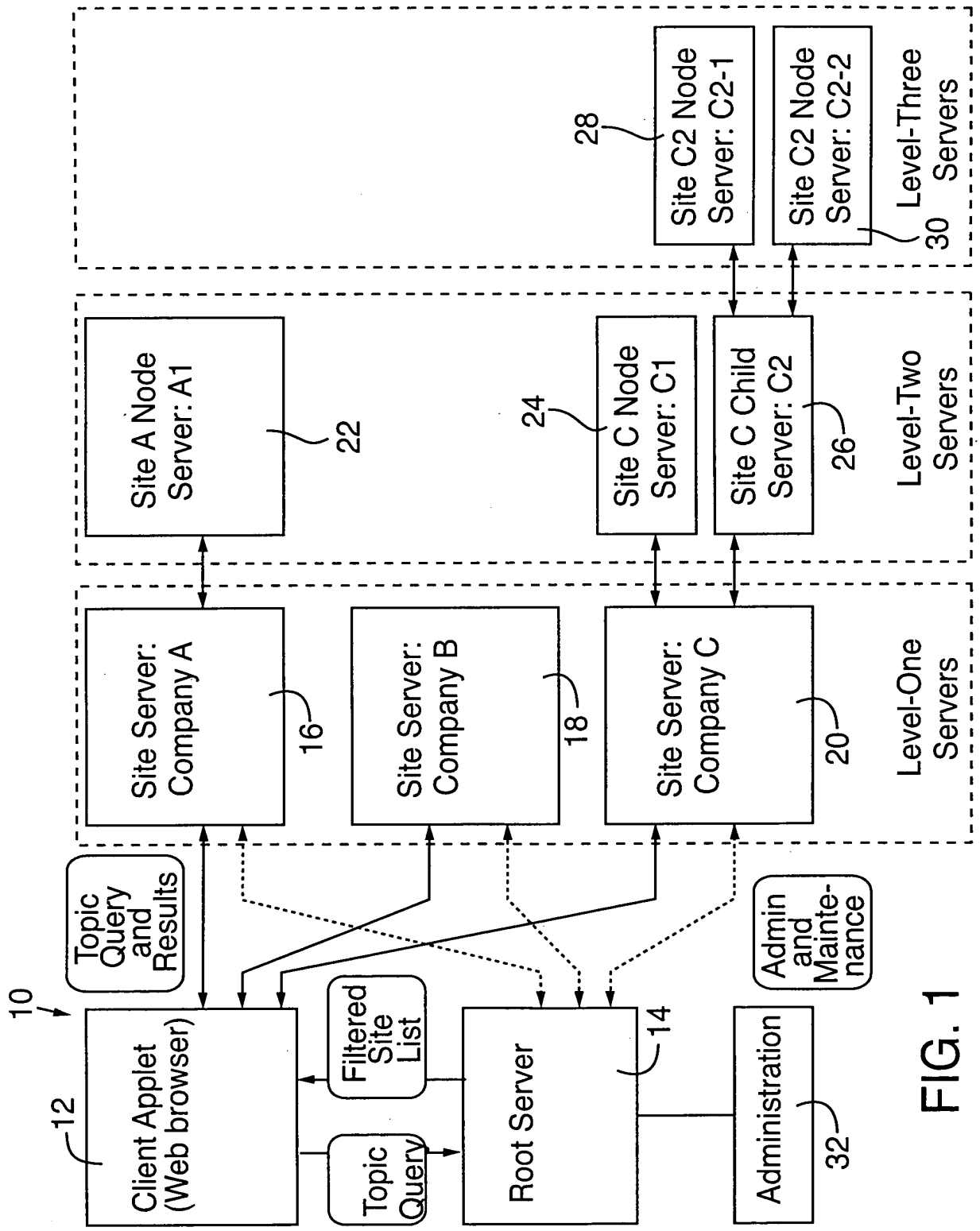

10
12
Client Applet (Web browser)
Topic Query and Results
Filtered Site List
Topic Query
Root Server
14
Admin and Maintenance
Administration
32
Site Server: Company A
16
Site Server: Company B
18
Site Server: Company C
20
Level-One Servers
Site A Node Server: A1
22
Site C Node Server: C1
24
Site C Child Server: C2
26
Level-Two Servers
28
Site C2 Node Server: C2-1
Site C2 Node Server: C2-2
30
Level-Three Servers

FIG. 1

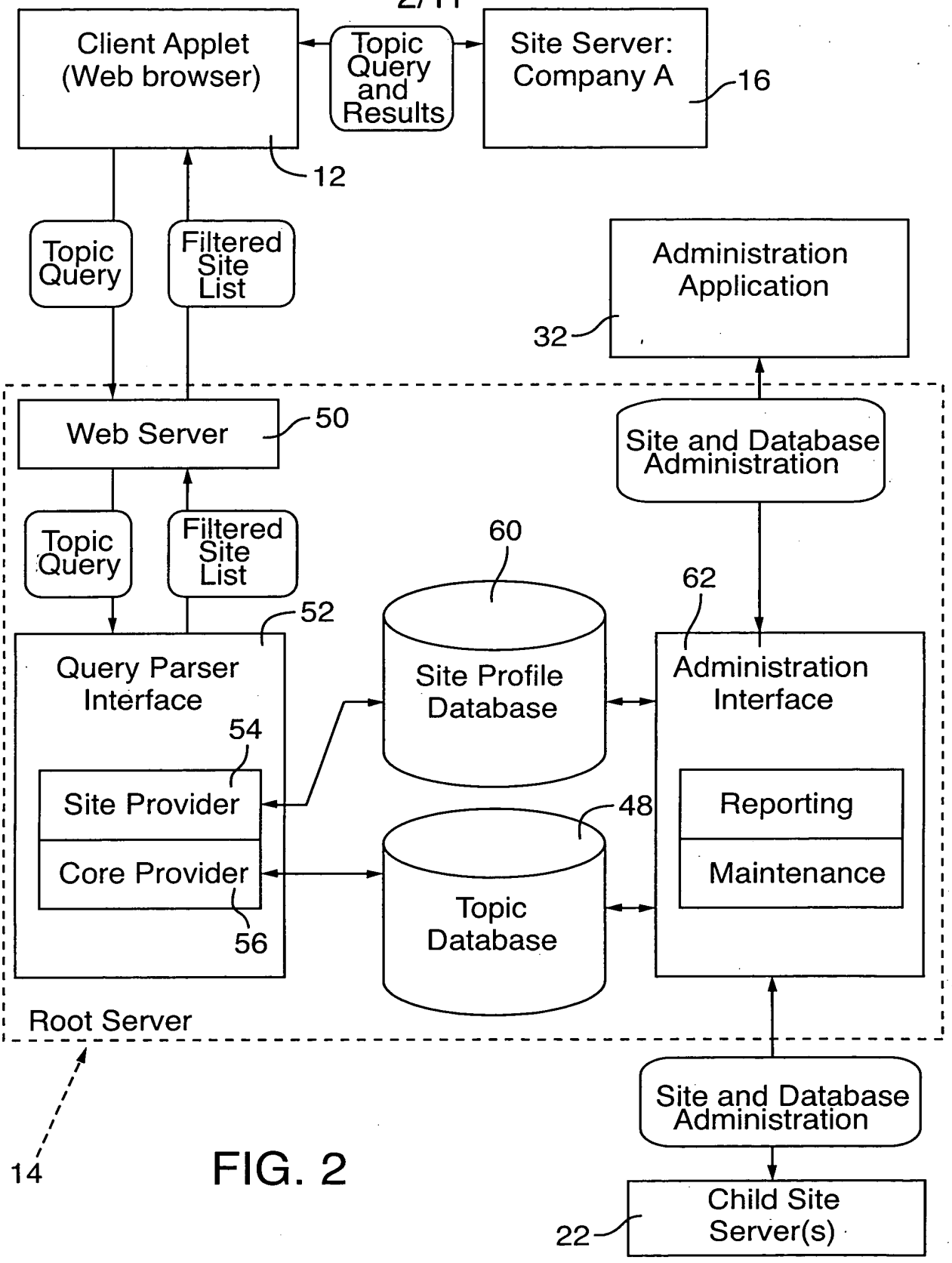
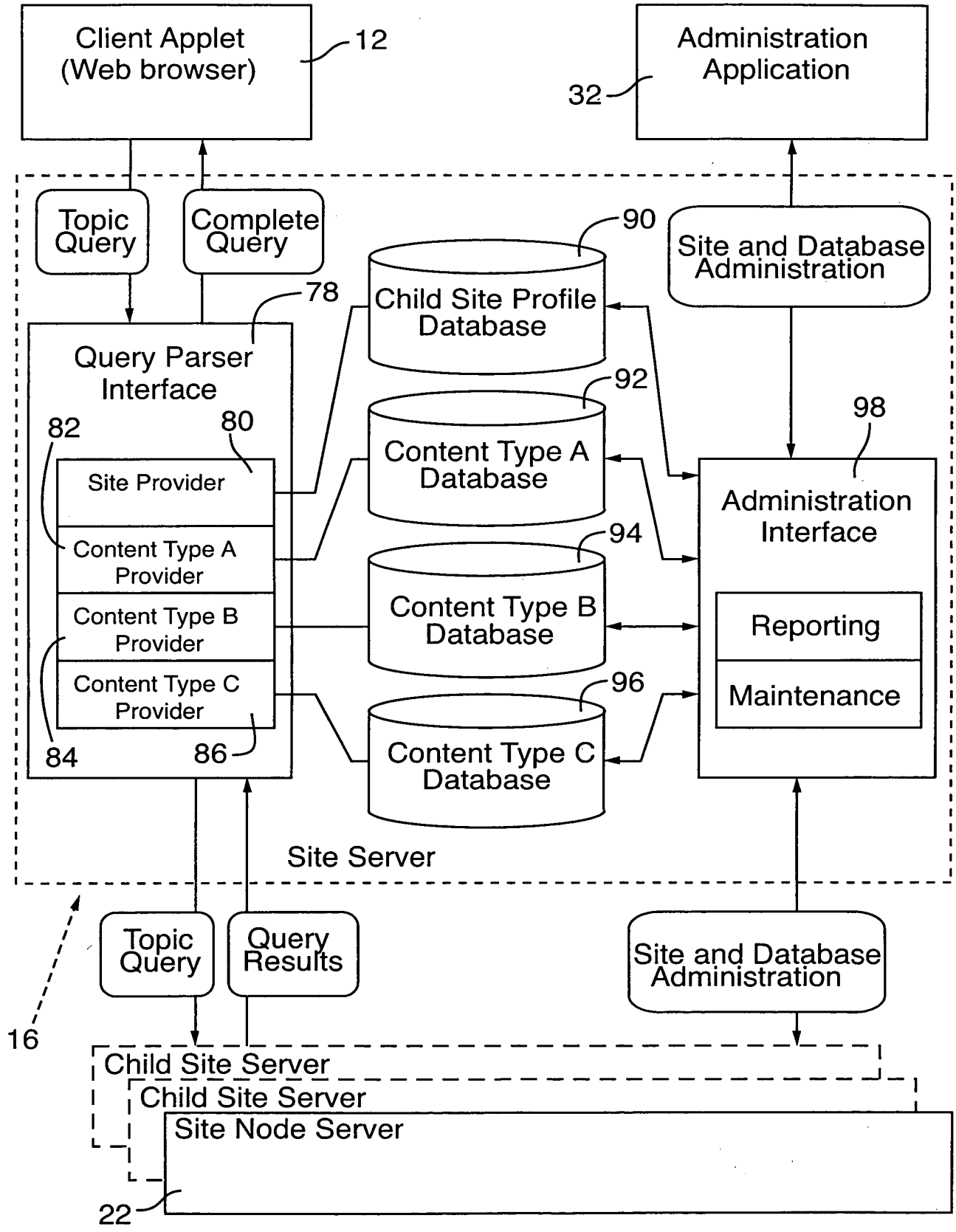


FIG. 2

FOREIGN-BASED

FIG. 3


Client Applet
(Web browser)
12
Administration
Application
32
Topic
Query
Complete
Query
90
Site and Database
Administration
Child Site Profile
Database
78
Query Parser
Interface
92
98
82
80
Site Provider
Content Type A
Database
Administration
Interface
Content Type A
Provider
94
Content Type B
Database
Content Type B
Provider
Reporting
Content Type C
Provider
96
Maintenance
Content Type C
Database
84
86
Site Server
Topic
Query
Query
Results
Site and Database
Administration
16
Child Site Server
Child Site Server
Site Node Server
22

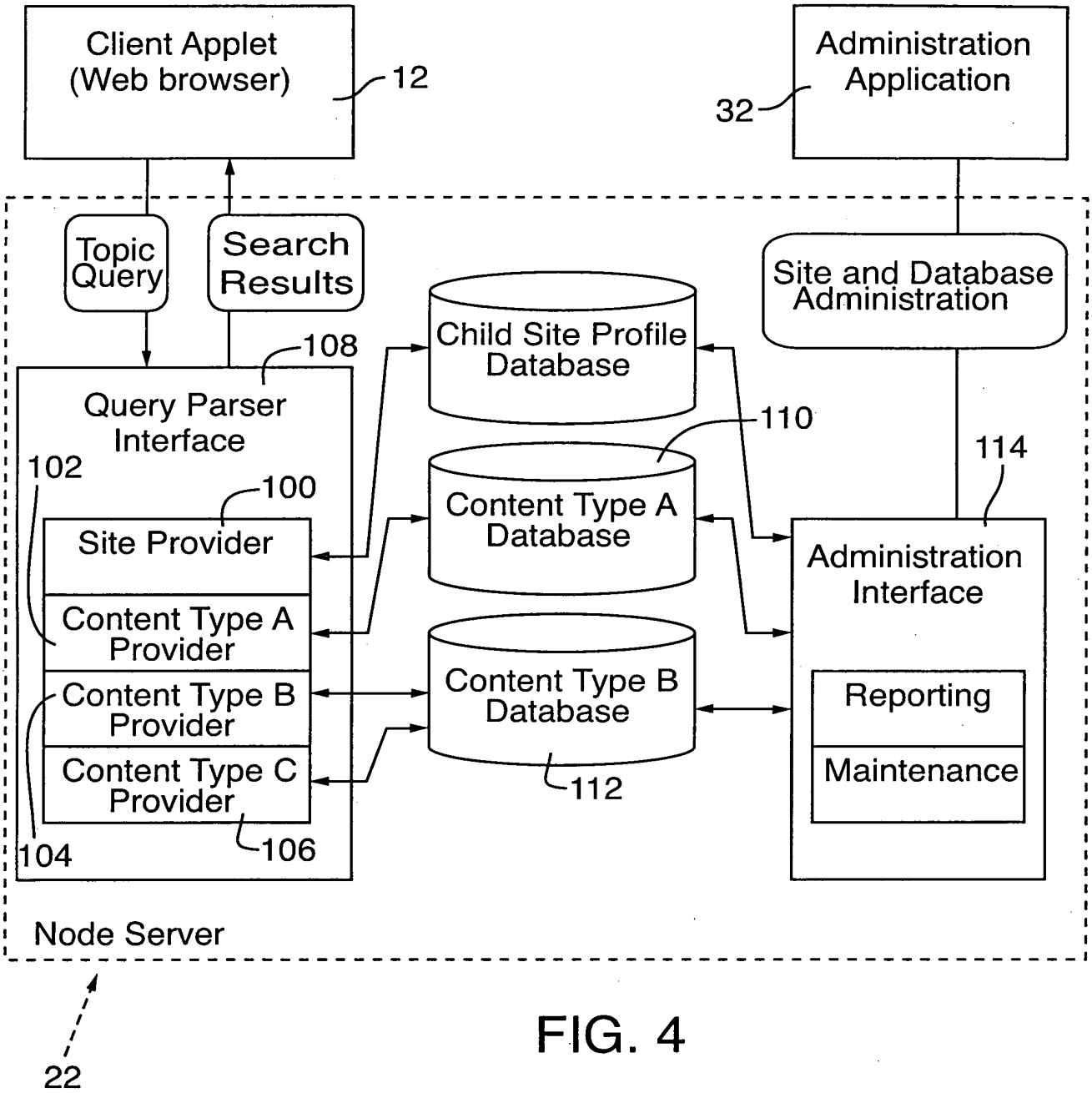

Client Applet
(Web browser)
12
Administration
Application
32
Topic
Query
Search
Results
Site and Database
Administration
Child Site Profile
Database
108
Query Parser
Interface
110
114
102
100
Site Provider
Content Type A
Database
Administration
Interface
Content Type A
Provider
Content Type B
Database
Reporting
Content Type B
Provider
Maintenance
Content Type C
Provider
112
104
106
Node Server
22

FIG. 4

FIG. 5

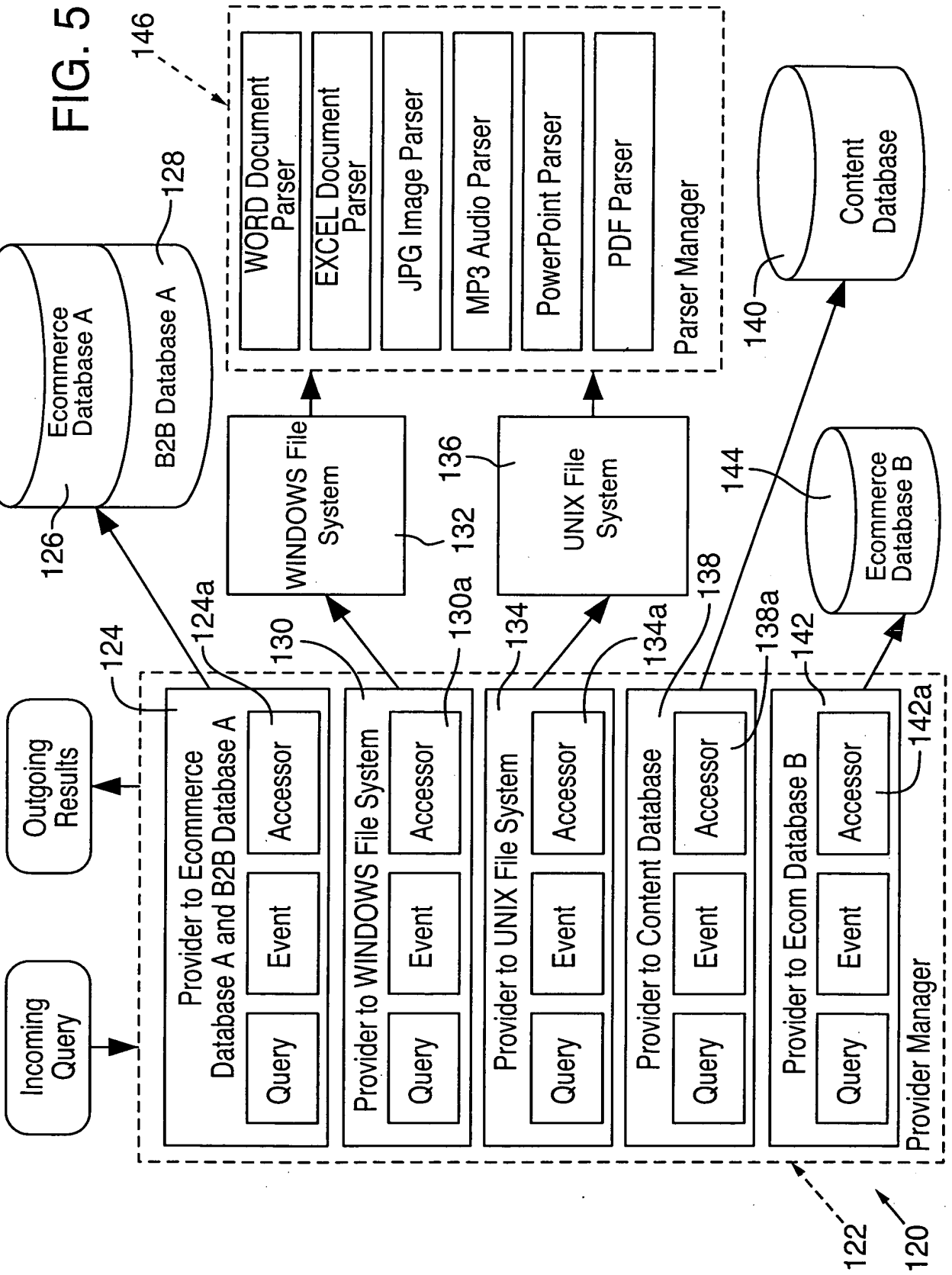

Incoming Query
Outgoing Results
Provider Manager
Provider to Ecommerce Database A and B2B Database A
Provider to WINDOWS File System
Provider to UNIX File System
Provider to Content Database
Provider to Ecom Database B
Query
Event
Accessor
Ecommerce Database A
B2B Database A
WINDOWS File System
UNIX File System
Ecommerce Database B
Content Database
Parser Manager
WORD Document Parser
EXCEL Document Parser
JPG Image Parser
MP3 Audio Parser
PowerPoint Parser
PDF Parser
120
122
124
124a
126
128
130
130a
132
134
134a
136
138
138a
140
142
142a
144
146

FIG. 6

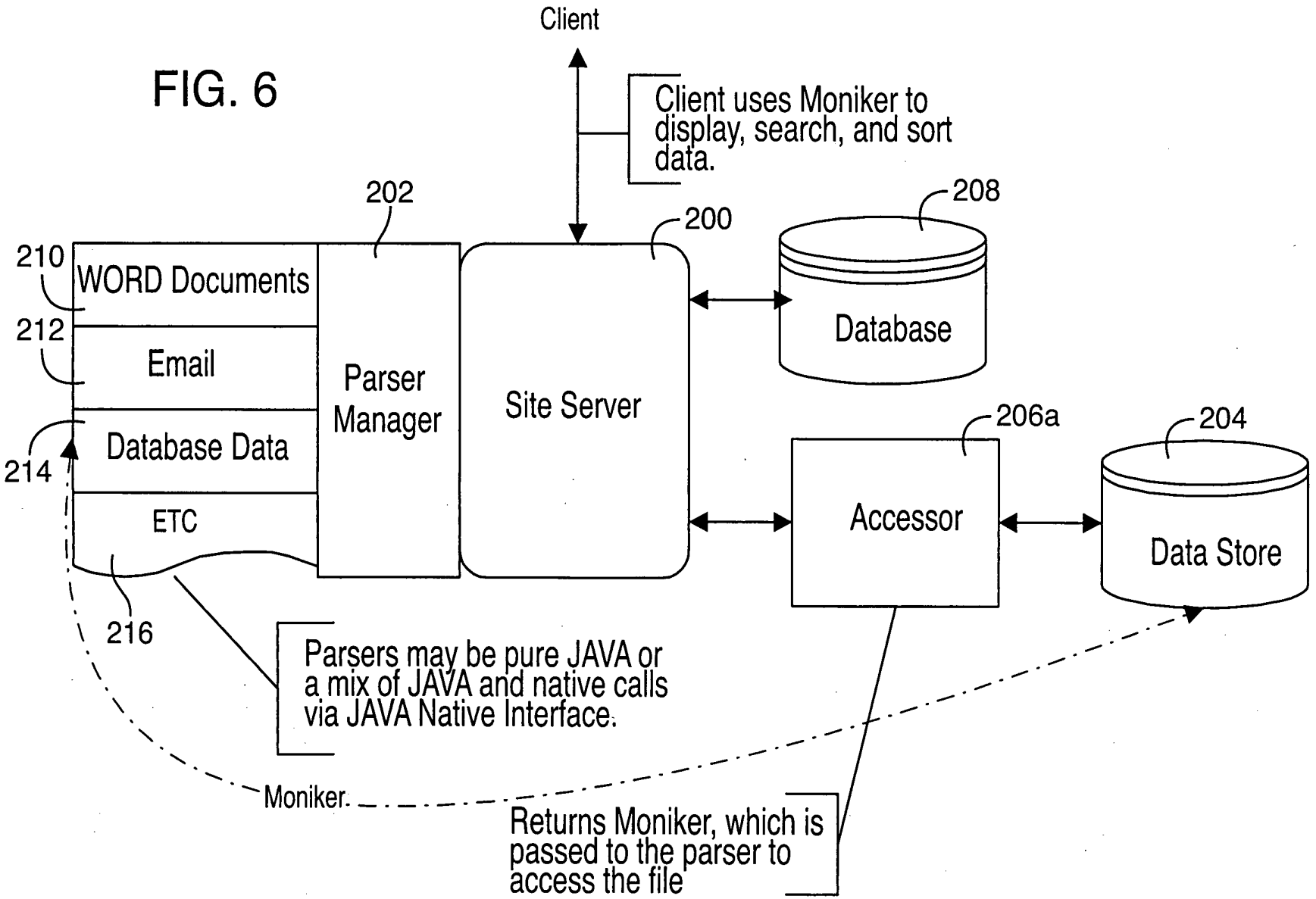
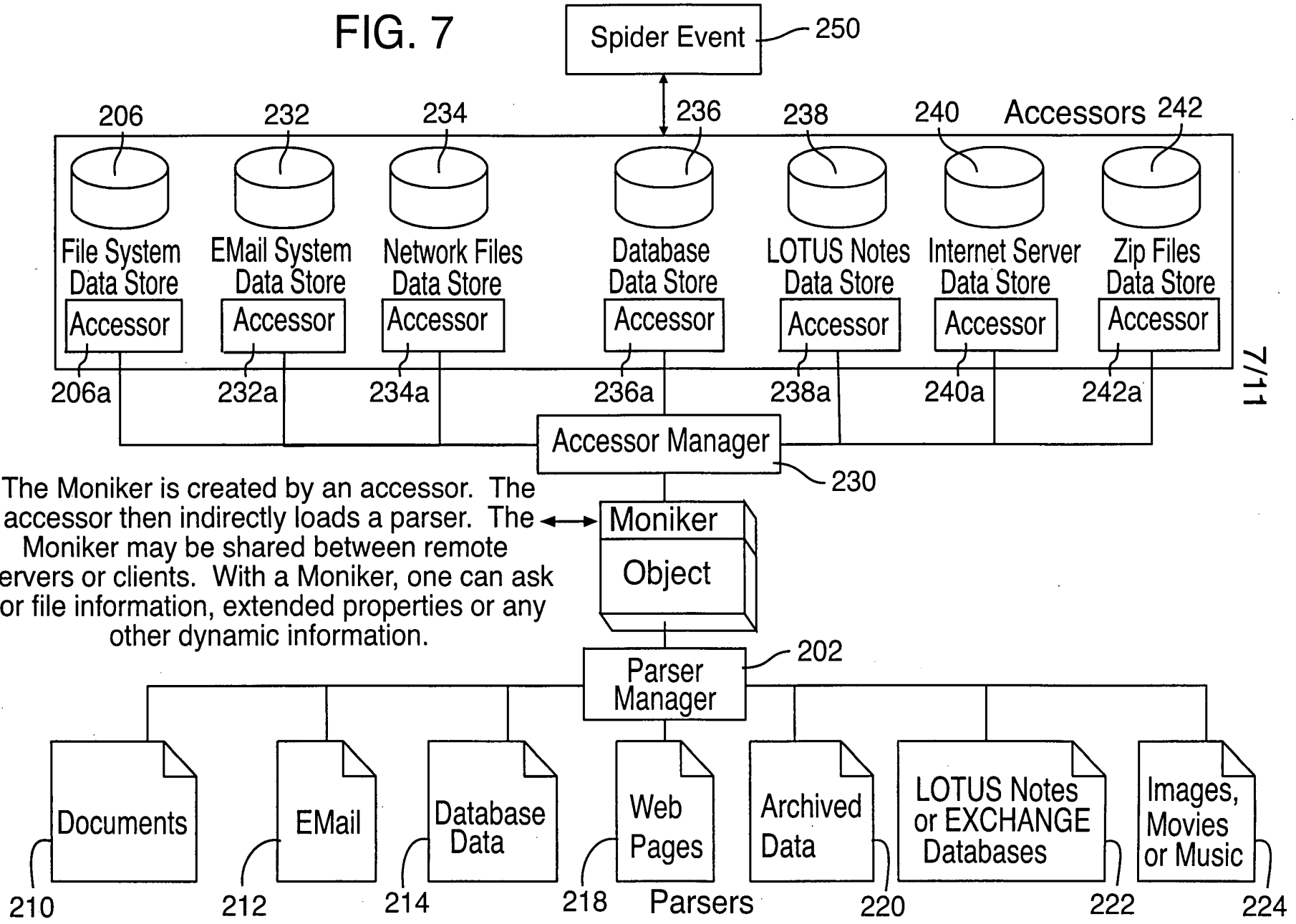

Client
Client uses Moniker to display, search, and sort data.
202
200
208
210
WORD Documents
212
Email
Database Data
214
ETC
Parser Manager
Site Server
Database
206a
204
Accessor
Data Store
216
Parsers may be pure JAVA or a mix of JAVA and native calls via JAVA Native Interface.
Moniker
Returns Moniker, which is passed to the parser to access the file

FIG. 7


Spider Event
250
206
232
234
236
238
240
Accessors
242
File System Data Store
EMail System Data Store
Network Files Data Store
Database Data Store
LOTUS Notes Data Store
Internet Server Data Store
Zip Files Data Store
Accessor
206a
232a
234a
236a
238a
240a
242a
7/11
Accessor Manager
230
The Moniker is created by an accessor. The accessor then indirectly loads a parser. The Moniker may be shared between remote servers or clients. With a Moniker, one can ask for file information, extended properties or any other dynamic information.
Moniker
Object
202
Parser Manager
Documents
EMail
Database Data
Web Pages
Archived Data
LOTUS Notes or EXCHANGE Databases
Images, Movies or Music
210
212
214
218
Parsers
220
222
224

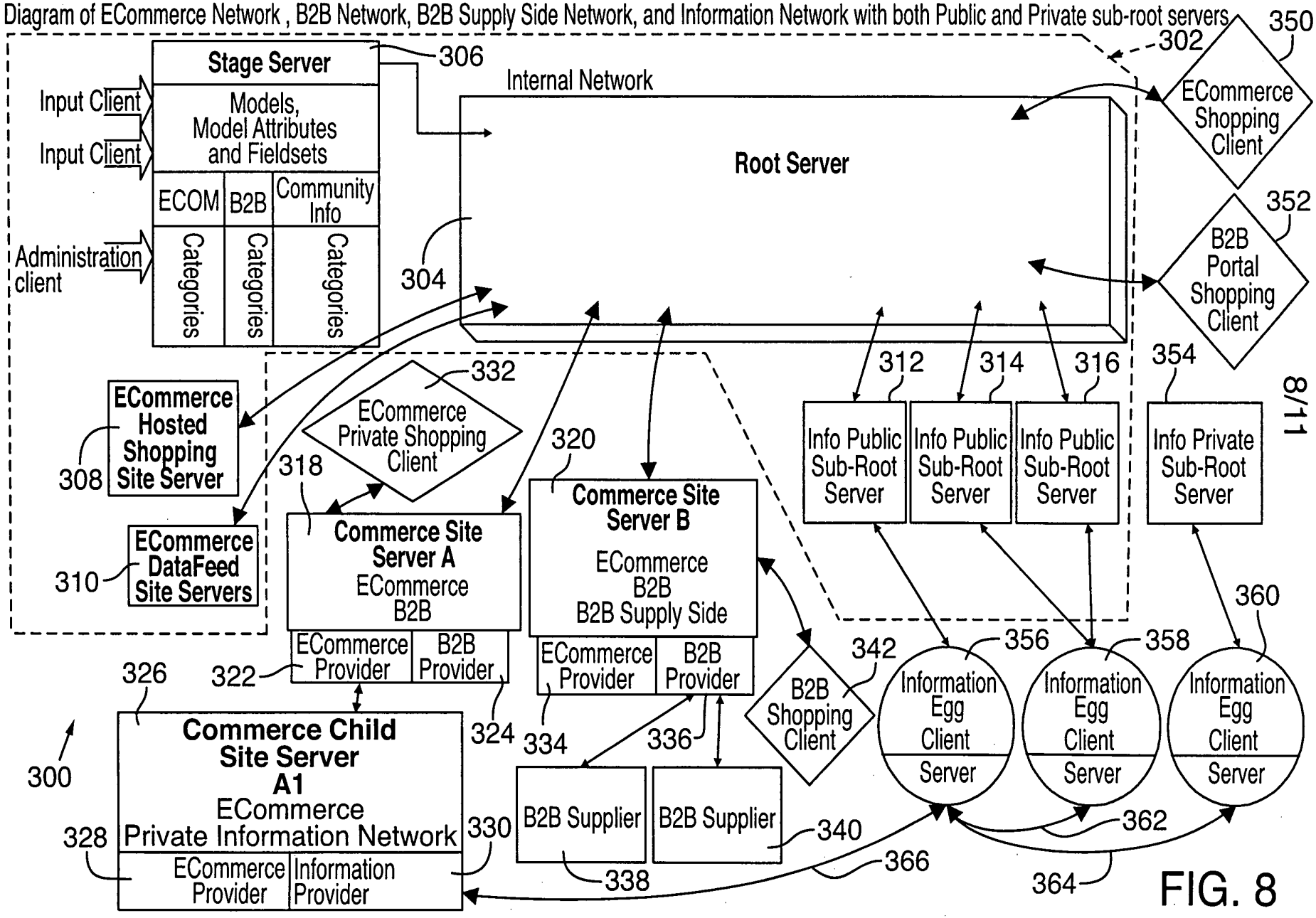
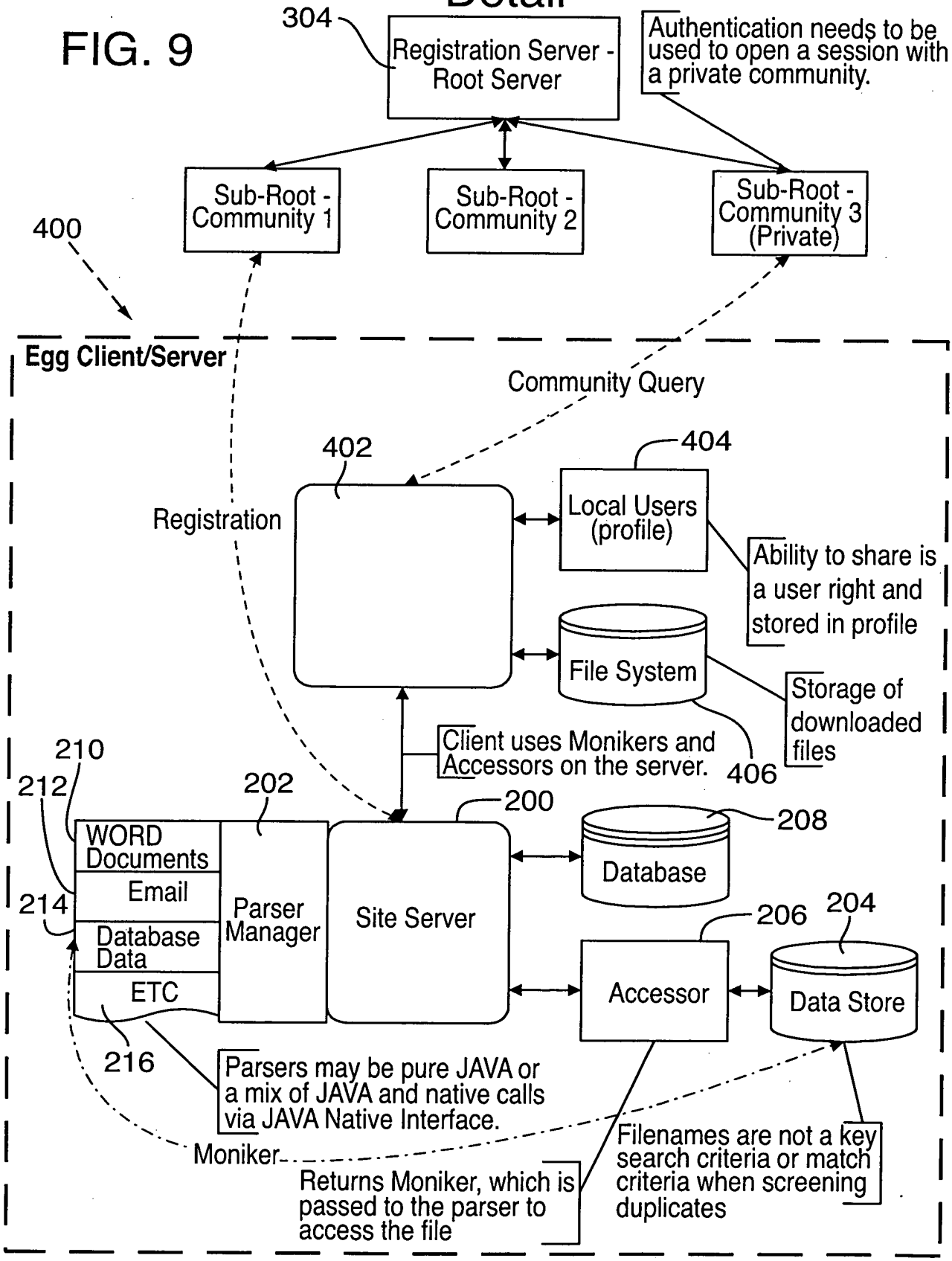


Diagram of ECommerce Network , B2B Network, B2B Supply Side Network, and Information Network with both Public and Private sub-root servers
Stage Server
Models, Model Attributes and Fieldsets
ECOM
B2B
Community Info
Categories
Input Client
Input Client
Administration client
306
304
Internal Network
Root Server
302
ECommerce Shopping Client
350
352
B2B Portal Shopping Client
354
312
314
316
Info Public Sub-Root Server
Info Public Sub-Root Server
Info Public Sub-Root Server
Info Private Sub-Root Server
332
ECommerce Private Shopping Client
318
320
ECommerce Hosted Shopping Site Server
308
ECommerce DataFeed Site Servers
310
Commerce Site Server A
ECommerce
B2B
Commerce Site Server B
ECommerce
B2B
B2B Supply Side
ECommerce Provider
B2B Provider
ECommerce Provider
B2B Provider
322
324
326
334
336
342
B2B Shopping Client
356
358
360
Information Egg Client
Server
Information Egg Client
Server
Information Egg Client
Server
300
Commerce Child Site Server A1
ECommerce
Private Information Network
328
330
ECommerce Provider
Information Provider
B2B Supplier
B2B Supplier
340
338
362
364
366

FIG. 8

Egg Client Server Detail

FIG. 9



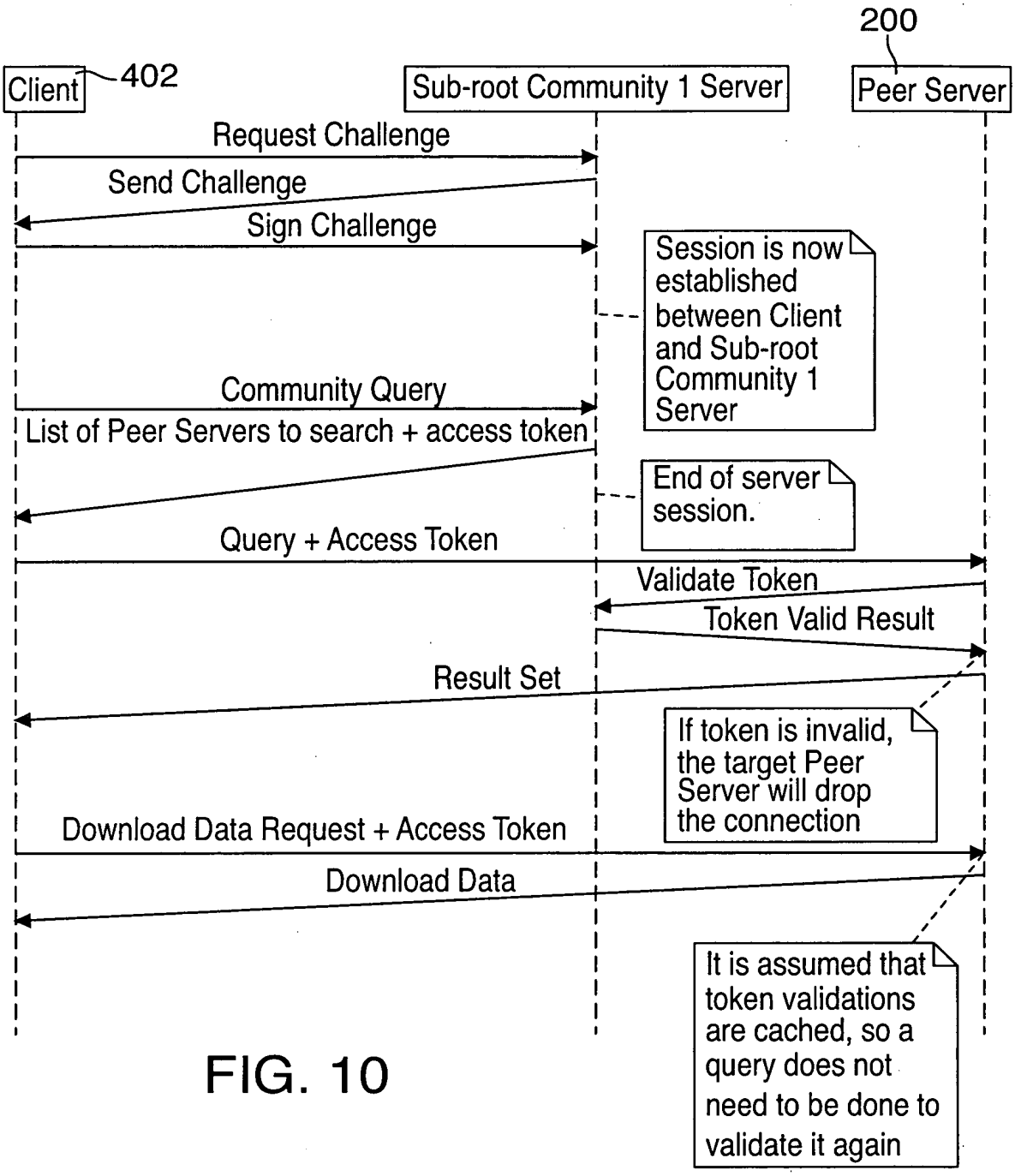


FIG. 10

EP 2 712 134 A1

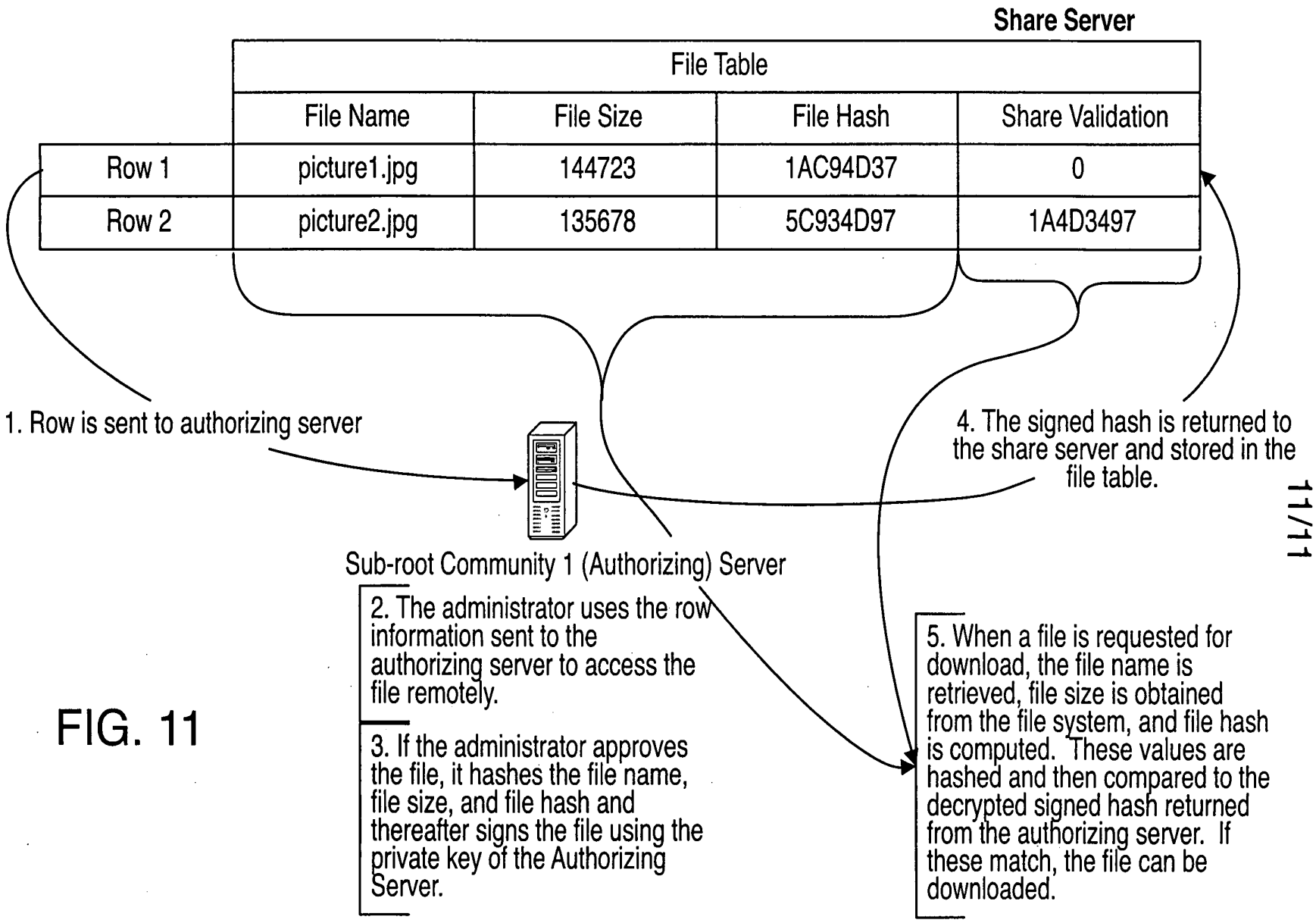

Share Server
File Table
File Name
File Size
File Hash
Share Validation
Row 1
picture1.jpg
144723
1AC94D37
0
Row 2
picture2.jpg
135678
5C934D97
1A4D3497
1. Row is sent to authorizing server
4. The signed hash is returned to the share server and stored in the file table.
Sub-root Community 1 (Authorizing) Server
2. The administrator uses the row information sent to the authorizing server to access the file remotely.
3. If the administrator approves the file, it hashes the file name, file size, and file hash and thereafter signs the file using the private key of the Authorizing Server.
5. When a file is requested for download, the file name is retrieved, file size is obtained from the file system, and file hash is computed. These values are hashed and then compared to the decrypted signed hash returned from the authorizing server. If these match, the file can be downloaded.

FIG. 11